

Claims

1.-24. (Cancelled)

25. (Currently Amended) A highly corrosion resistant high strength stainless seamless steel pipe for linepipe having a composition comprising: 0.001 to 0.015% C, 0.01 to 0.5% Si, 0.1 to 1.8% Mn, 0.03% or less P, 0.005% or less S, [[15]] 15.7 to 18% Cr, 0.5% or more and less than 5.5% Ni, 0.5 to 3.5% Mo, 0.02 to 0.2% V, 0.001 to 0.015% N, and 0.006% or less O, by mass, to satisfy the formulae (1), (2), and (3), and optionally further comprising by mass:

0.002 to 0.05% Al,

3.5% or less Cu,

at least one element selected from the group consisting of 0.2% or less Nb, 0.3% or less Ti, 0.2% or less Zr, 0.01% or less B, and 3.0% or less W; and/or 0.01% or less Ca;

and balance of Fe and impurities:

$$\text{Cr} + 0.65\text{Ni} + 0.6\text{Mo} + 0.55\text{Cu} - 20\text{C} \geq 18.5 \quad (1)$$

$$\text{Cr} + \text{Mo} + 0.3\text{Si} - 43.5\text{C} - 0.4\text{Mn} - \text{Ni} - 0.3\text{Cu} - 9\text{N} \geq 11.5 \quad (2)$$

$$\text{C} + \text{N} \leq 0.025 \quad (3)$$

where C, Ni, Mo, Cr, Si, Mn, Cu, and N signify the content of the respective elements, and a microstructure comprising a residual austenite phase that is present[[.but]] in an amount of 4.1% to that is about 40% or less, and about 10 to about 60% ferrite and about 25% or more tempered martensite by volume, in a ferrite and martensite dual-phase as a base phase.

26. (Cancelled)

- 27. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Ni is about 1.5 to about 5.0% by mass.
- 28. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Mo is about 1.0 to about 3.5% by mass.
- 29. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Mo is more than about 2% and not more than about 3.5% by mass.
- 30. (Cancelled)
- 31. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the content of Cu is about 0.5 to about 1.14% by mass.
- 32.-34. (Cancelled)
- 35. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the ferrite phase is about 15 to about 50% by volume.
- 36. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, wherein the residual austenite phase is about 30% or less by volume.
- 37.-47. (Cancelled)
- 48. (Previously Presented) A welded structure fabricated by welding to join together the high strength stainless seamless steel pipes according to claim 25.
- 49. (Cancelled)
- 50. (Previously Presented) The high strength stainless seamless steel pipe according to claim 25, having a yield strength of 413 to 579 MPa.